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Publications, Review Articles, Book Chapters, Books

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Patents

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2007/2008

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Guerin, Gilles; Morvan, Mikel; Bibette, Jerome. **Water-redispersible granules containing liquid active ingredients and nonionic alkoxylated surfactants.** PCT Int. Appl. (1997), 19 pp. CODEN: PEXXD2 WO 9715385 A1 19970501 CAN 127:19959 AN 1997:400099 CAPLUS

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Bibette, Jerome; Schorsch, Gilbert; Charmot, Dominique. **Process for preparation of aqueous dispersions of magnetizable polymer particles with narrow size distribution.** Fr. Demande (1991), 13 pp. CODEN: FRXXBL FR 2658200 A1 19910816 CAN 116:195538 AN 1992:195538 CAPLUS

Bibette, Jerome. **Process for preparing monodisperse oil-in-water emulsions.** Eur. Pat. Appl. (1991), 7 pp. CODEN: EPXXDW EP 442831 A1 19910821 CAN 115:184714 AN 1991:584714 CAPLUS

Invited Talks in International Meetings

- Conférence Franco-indienne (CEFIPIRA), mai 1991. Membranes, monolayers and multilayers. Chantilly, France. "*Depletion interaction induced by free surfactant chain.*"
- Material Research Society Conference, decembre 1991. Boston, U.S.A. "*Flocculation and Coalescence of Emulsions.*"
- Workshop on Emulsion: fundamental and practical approach, June 1991. Bergen, Norvège. "*Fluid-solid equilibrium of emulsion, application to the fractionated crystallization method.*"
- 11th Scandinavian Conference on Surface Chemistry, June 1991. Bergen, Norvège. "*Role of depletion forces in creaming of emulsions.*"
- Sixth International Conference on Magnetic Fluids, juillet 1992. Paris. "*Monodisperse ferrofluid emulsions.*"
- March meeting of the American Physical Society, March 1993. Seattle, Washington, U.S.A.. "*Gelation of Emulsions.*"
- Fourth International Conference on electroRheological Fluids, July 1993. Bregenz-Dornbirn, Autriche, "*Chaining in magnetic emulsions*"
- Second Gordon Research Conference on Complex Fluid, September 1993. Irsee, Allemagne. "*Physics of squishy spheres.*"
- First World Conference on Emulsions, octobre 1993. Paris. "*Coalescence of Emulsions.*"
- Gordon Conference on Dynamics of Macromolecular and Polyelectrolyte Solutions, February 1994. Oxnard, Californie, U.S.A. "*Direct measurement of colloidal forces*".
- Workshop on Biomolecular Materials and Biophysics, August 1994. Santa Barbara, Californie, U.S.A.. "*Forces between emulsion droplets and phases behavior*"
- Ecole de Physique des Houches 31/01 - 10/02/95. Slow dynamical processes in soft condensed matter, février. 1995. "*Motion and coalescence in emulsions*"
- Material research Society Meeting April 17-21 1995. San Francisco, U.S.A. "*Direct measurement of colloidal forces*".
- Workshop on Colloidal Physics, Konstanz, Germany. 30 November, 2 December 1995. "*Forces and and Coalescence in Emulsions*".
- 3rd Liquid Matter Conference, Norwich, England, 6-10 Juillet 1996, "*Adhesion and Coalescence of Emulsions*".
- Arcachon, France, Eurofoam Conference. Mai 96 "*Emulsification in Viscoelastic Media*",
- Workshop on Colloids and Complex Fluids, Mexico, San Luis de Potosi. July 1996. "*Emulsions: From their preparation to their destruction*".
- Emulsions Conference of the Royal Society of Chemistry, University of Hull, England. March 97 "*Some Aspects of Emulsification and Coalescence*".
- Symposium on Soft Condensed Matter Physics, University of Pennsylvania, Philadelphia. May 97. "*Droplet Interactions and Coalescence of Emulsions*".
- Second World Congress on Emulsions, Bordeaux, septembre 1997. "*Basic principles of Monodisperse emulsions*".
- Royal society of chemistry, Formulations science and technology. London September 97 "Life time and destruction of a dense emulsion".
- Material Research Society Boston USA December 97. "*Destruction of dense emulsions*"
- Italie, Ecole d'été Trieste May 98, « physics of emulsion and colloids »
- World conference on cosmetic septembre 98 Cannes. "*Monodisperses emulsions; preparation and applications.*"
- Sapporo Japan, Structure, formation and stimuli responsive gels. March 99 "*Emulsions gels*"
- Bristol IACIS, July 2000; "*Double Emulsions: life time*"; "*Contraction of Emulsions Gels*"
- Paris, Nanobiotechnologies I, Decembre 2001. "*Colloids and diagnostic*"
- Paris, Conference Franco Israelienne, Mars 2002. "*Colloidal Assembling and Biologicaldiagnostic*"

- Konstanz Germany, International Liquid conference 2002.
- "*Colloidal Assembling and Biological diagnostic* "
- Tokyo, Japon, 1st Int Conf on Bio-Nanointerfaces, May 19-24 , 2003 .
- " *Self assembling of Colloids and diagnostic* "
- European Science Foundation Conference, Microwave and optical behavior of nanogranular ferroxides, High frequency characterization and biomagnetic applications , Bulgaria Sofia 2003.
- " *magnetic emulsions and biological applications* "
- Second French-Japan Conference, Bordeaux Nov 2003.
- « *Flexible magnetic filaments* »
- 17th New England Complex Fluids Workshop. Harvard University Cambridge Massachussets, Decembre 03.
- "*Colloidal Assemblies as bio-sensors* ".
- Riga, workshop on magnetic forces in biology September 04. "*Filaments and biophysics* ".
- Material Research Society Boston, 2005. " *Biorecognition and colloidal science* "
- Princeton Meeting 2005." *artificial swimmers*"
- Amsterdam- New England workshop, Amsterdam, novembre 2005. "*Flexible Filaments as nanosensors* "
- Biomagnetism and Magnetic Biosystems conference, Barcelone septembre 2007 "*Colloids and beyond*"
- Material Research Society Conference, Bangalore , India, octobre 2007 "*Colloids and beyond*"
- 8th German Ferrofluid Workshop, May 7-9, Berlin Germany, 2008 "*Magnetic colloids in biophysics*"
- 4th International Conference on Bioengineering and Nanotechnology, Dublin Ireland July 21-24, 2008, « *Properties of self-assembled magnetic colloids* »
- 7th Liquid Matter Conference, Lund, June 27 July 1, Sweden, 2008, « *Meso-chemistry* »
- Microdroplets in action, workshop, Cambridge May 6-8 ; UK 2008, « *Digital microfluidic for studying interfaces* »
- 22nd Conference of the European Colloid and Interface Society August 31 - September 5, 2008 Cracow, Poland, « *Chiral colloidal clusters* »
- High level Workshop on Molecular imaging ; 8-9 September 2008, Grenoble France, « *Physics of biorecognition* »
- NanoSWEC meeting 3-5 november 2008, Bordeaux, France,
- Gordon conference, Liquids, Chemistry and Physics of : Holderness, New Hampshire Aout 2009, « *Entropic force transduction by growing actin filaments* »
- Les Houches février 2009, in honor to Georg Maret « *Probing the force generated by growing actin filaments with magnetic colloids* »
- ESF school Lisbonne portugal 2009, Nanomedicine, « *Physics of biorecognition* »

Organization of Conferences

- Cargèse, école thématique Octobre 2004, Microfluidique et Bioanalyse, avec J.L. Viovy et A. Ajdari
- Les Houches, école thématique Avril 2006, Colloïdes en Biologie et en Medecine, avec P. Levitz
- Cargèse, école thématique Octobre 2006, Colloïdes sous champ et Applications, avec G. Maret

Sabbaticals

- Exxon (USA), *postdoc*, 09/91 - 09/92
- Exxon (USA), *visiteur*, 15/12/92 - 30/12/92

- Exxon (USA), *visiteur*, 25/07/93 - 25/08/93
- UNILEVER (USA), *visiteur*, 12/ 04/95 - 18/04/95
- ESPCI (France), *professeur invité*, 1/02/01 – 15/06/01
- New York University, Physics Dpt (USA), *professeur invité*, 1/03/06- 1/08/06
- Collegium Budapest, Professeur invité, juin 2007
- EPFL Lausanne, Professeur invité, Juillet 2008

Companies founded

Ademtech (www.ademtech.com), Cofondateurs : J. Bibette, B.Mandrand; Pessac France, 2000, 20 employés en 2009, Lauréat du concours national de création d'entreprises innovantes et Lauréat de la fondation Aventis. Capital risque investi : 4M €. Cette société a développé des colloïdes magnétiques pour le diagnostic et la bioanalyse. Elle développe aujourd'hui de nouveaux kits de détection pour l'immuno-diagnostic, la biologie moléculaire, la virologie et les maladies nosocomiales.

RainDance Inc USA (www.raindancetechnologies.com), Cofandateurs :J. Bibette, DA Weitz, A. Griffiths, D. Link), Lexington, MA USA, 2004, 80 employés en 2009. Cette société développe une technologie d'échantillonnage à très haut débit, basée sur l'encapsulation dans des microgouttelettes en microfluidique. Capital risque investi 65 M\$. La première phase de commercialisation vise la génomique et particulièrement la phase de préparation pour le séquençage.

Capsum (www.capsum.eu), cofondateurs : J. Bibette, DA.Weitz, S.Bardon, Paris, fondée en Aout 2008. Cette société a été incubée à l'ESPCI, dans le LCMD, Lauréat du concours national de création d'entreprises innovantes en 2009. Cette société commercialise des produits de haute technologie pour la cosmétique de luxe essentiellement destinés à la protection de principes actifs dans les formulations liquides ou solides. 7 employés, installation à Aix en Provence en février 2010, capital risque investi 1M€.

honors

Membre Junior de L'institut Universitaire de France 94-99

Médaille d'argent du CNRS 2000; Département Sciences Chimiques